	Application No.	Applicant(s)
Notice of Allowability	10/082,865	KOPPE ET AL.
	Examiner	Art Unit
	Eric S. McCall	2855
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to the Applicant's Appear	al Brief dated June 08, 2004.	
2. ☑ The allowed claim(s) is/are <u>1-16</u> .		
3. The drawings filed on 19 October 2001 are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers hereto or 2) to Paper No./Mail Date including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the depose attached Examiner's comment regarding REQUIREMENT In th	on's Patent Drawing Review (PTO s Amendment / Comment or in the 84(c)) should be written on the draw he header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL	Office action of ings in the front (not the back) of (d). must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Da 8), 7. Examiner's Amend	nte

TOMOSYNTHESIS IN A LIMITED ANGULAR RANGE

REASONS FOR ALLOWANCE

The following is an Examiner's statement of reasons for allowance:

In view of the Applicant's arguments as presented in the Appeal Brief, claim 1 has been found to be allowable over the prior art because the prior art fails to teach or suggest, as argued by the Applicant, forming an X-ray layer image directly from the X-ray projection images without creating an intermediary three-dimensional data set, the formed X-ray layer image being situated in a plane which extends essentially perpendicularly to a bisector of the angular range; wherein the angular range of displacement is less than 180 degrees.

In view of the Applicant's arguments as presented in the Appeal Brief, claim 13 has been found to be allowable over the prior art because the prior art fails to teach or suggest, as argued by the Applicant, an image processing unit for forming an X-ray layer image from the X-ray projection images; and

wherein only X-ray projection images in an angular range of less than 180 degrees are acquired in order to form the X-ray layer image; and

wherein the image processing unit forms the X-ray layer image directly from the X-ray projection images without creating an intermediary three-dimensional data set, where the formed X-ray layer image is situated in a plane which extends essentially perpendicularly to a bisector of the angular range.

In view of the Applicant's arguments as presented in the Appeal Brief, claim 16 has been found to be allowable over the prior art because the prior art fails to teach or suggest, as argued by the Applicant, a method of forming an X-ray layer image of an object with an X-ray device having an X-ray source and an X-ray detector, comprising the steps of:

displacing the X-ray source and the X-ray detector over a less than 180 degrees angular range around an object being examined in order to acquire less than 100 X-ray projection images; and

forming at least one X-ray layer image directly from the less than 100 X-ray projection images without creating an intermediary three-dimensional data set, the formed X-ray layer image being situated in a plane which extends essentially perpendicularly to a bisector of the angular range.

All other claims have been found allowable over the prior art due to their dependency on one of the above claims.

CONCLUSION

Any comments considered necessary by the Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Eric S. McCall whose telephone number is (571) 272-2183.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric S. McCall Primary Examiner

Art Unit 2855

July 30, 2004